

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	157215	(gear or hub or pinion).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:07
L2	24878	1 (elastic or flexible or plastic or compressible).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:08
L3	8456	2 (motor or actuator).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:09
L4	812	3 worm.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:10
L5	234	4 (ring or disk).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:10
L6	40	5 (lock\$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:11
L8	22	6 control.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:12
L9	13	8 (torque or force).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/11 11:12
S1	7861	(74/53,54,55,89.14,405,411,443,446).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/11 11:07

## EAST Search History

S2	6	S1 elastic gear hub arm drive motor lock	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/16 13:32
S3	33	S1 plastic gear hub arm drive motor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/04 11:50
S4	3	("3403259").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/11/16 14:00
S5	2	("3406583").PN.	USPAT; USOCR	OR	OFF	2006/11/16 15:32
S6	10	((("6445081") or ("6073503") or ("6145354") or ("4367660") or ("3446085") or ("4889608") or ("5697237") or ("6439624") or ("5649726")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/10 17:01
S7	9	("3995201"   "4144555"   "4270783"   "5240296"   "5273324"   "5308129"   "5359884"   "5937584").PN. OR ("6445081").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 16:18
S8	6	S6 spring	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 16:46
S9	15	S1 spring stopper disk	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 16:49
S10	76	S1 (window or door) spring lock	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 17:07
S11	67	S1 ((window or door) (lift or lock)) spring arm	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 17:17
S12	32332	((window or door) (lift or lock)) spring arm shaft	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 17:17
S13	8827	S12 actuator	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 17:17
S14	3390	S13 control disk	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/16 17:18

## EAST Search History

S15	1989	S14 gear motor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/16 17:19
S16	795	S15 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/16 17:19
S17	150	S16 vehicle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/16 17:19
S18	6131	(window or door) (two adj arms) spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 07:42
S19	66965	(lock or locking) door spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 07:57
S20	17039	S19 vehicle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 07:53
S21	11744	S20 (arm or lever)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 07:53
S22	912	S21 theft	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 07:54
S23	3738	(lock or locking) door spring worm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 07:57
S24	3342	(lock or locking) door spring worm gear	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 07:58

## EAST Search History

S25	292	(lock or locking) door spring worm gear "292"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 08:52
S26	1	("6557911").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 08:22
S27	13	("5802894" "5934717" "5938253" "6056334" "6155124" "6279361" "6386599" "6390517" "6419286" "6435573" "6439623" "6474704" "6565131").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 08:27
S28	3	("20040113438" "5934717" "5938253").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 08:27
S29	11	("4290634"   "4518181"   "4624491"   "4904006"   "4926707"   "5002322"   "5020838"   "5649726"   "5667263"   "5802894"   "6003910").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/17 08:29
S30	36	("0950551"   "2824582"   "2898138"   "3566703").PN. OR ("4518181").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/17 08:47
S31	1	"5020838".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/17 08:47
S32	159	S25 bias\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2006/11/17 09:14
S33	6	((("6988749") or ("6435573") or ("6371536") or ("4904006") or ("4763936") or ("4664430"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/11/17 10:14
S34	1362	(292/201).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/11/17 10:14

## EAST Search History

S36	7877	(74/53,54,55,89.14,405,411,443,446).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/01 09:47
S38	10	("2785580"   "3610781"   "4770055"   "4774423"   "5182957"   "5735015"   "5979256"   "6000092").PN. OR ("6449798").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 09:58
S39	187	S36 (elastic or elastomeric or flexible or compressible) gear drive motor arm	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 10:30
S40	1	("6073395").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/01 10:07
S41	36	S36 (elastic or elastomeric or flexible or compressible or plastic) gear hub (lash or backlash or (back adj lash))	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 11:42

# EAST Search History

S42	293	("0284290"   "0287711"   "0288134"   "0312780"   "0314472"   "0379022"   "0680654"   "0820789"   "1060865"   "1265811"   "1424203"   "1674226"   "1750827"   "1757517"   "1780727"   "1913525"   "1925278"   "1928763"   "1967322"   "2004712"   "2049133"   "2105188"   "2118913"   "2157211"   "2162071"   "2182387"   "2187706"   "2260869"   "2301600"   "2306539"   "2307129"   "2325193"   "2380776"   "2400586"   "2460630"   "2560644"   "2591734"   "2702995"   "2753731"   "2857777"   "2869388"   "2904150"   "2939331"   "2955481"   "2956187"   "2961856"   "2998114"   "3020036"   "3057220"   "3071850"   "3076352"   "3078206"   "3167975"   "3171270"   "3216267"   "3218828"   "3223214"   "3236347"   "3245508"   "3257860"   "3265172"   "3283864"   "3304795"   "3323624"   "3360998"   "3362256"   "3375911"   "3406583"   "3428155"   "3557573"   "3557633"   "3565223"   "3628353"   "3640363"   "3667317"   "3757608"   "3770088"   "3791499"   "3885657"   "3930339"   "3943788"   "3952546"   "4004669"   "4178811"   "4184578"   "4222202"   "4241818"   "4296851"   "4296853"   "4296854"   "4300670"   "4328879"   "4441600"   "4461376"   "4465172"   "4474276"   "4478326"   "4511186"   "4530673"   "4537298"   "4541296"   "4549642"   "4552543"   "4558773"   "4560366"   "4560367"   "4562913"   "4564097"   "4572344"   "4573723"   "4574930"   "4591040"   "4606451"   "4609088"   "4615096"   "4616742"   "4624351"   "4629048"   "4632235"   "4635779"   "4635780"   "4638684"   "4646899"   "4674351"   "4680979"   "4680979".PN. OR ("4693354"   "4696384"   "4706512"   "4709796"   "4729464"   "4732250"   "4741420"   "4744448"   "4760906"   "4764152"   "4793455"   "4796728"   "4846323"   "4891033"   "4892008"   "4899862"   "4913275"   "4919246"   "4938729"   "4951515"   "4977734"   "4987987"   "4996897"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 10:32
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## EAST Search History

S43	17	("3455174"   "4748865"   "4899608"   "4995568"   "5040430"   "5062241"   "5178026"   "5212999"   "5267482"   "5956998").PN. OR ("6393929").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 10:41
S44	7	("3808906").URPN.	USPAT	AND	ON	2007/05/01 10:54
S45	17	S36 (vehicle or automotive) door lock (elastic or elastomeric or plastic or flexible or compressible)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 11:41
S46	1345	(elastic or elastomeric or flexible or compressible) gear hub bond	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 11:43
S47	337	S46 (backlash or absorb)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 11:47
S48	132	S36 drive overload	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 11:47
S49	36	("3406583").URPN.	USPAT	AND	ON	2007/05/01 11:55
S50	11	("1962993"   "3406583"   "3762463"   "4702122"   "4766641"   "5000721"   "5601491").PN. OR ("6508140").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 12:26
S51	233	(gear hub) with elastic	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/01 12:52
S53	1307	(74/440,439,445).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/01 12:53
S56	14	S53 gear elastic (absorb or back lash or overload)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/01 12:57
S57	27	S53 gear (elastic or elastomeric or flexible or compressible) (absorb or back lash or overload)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/01 13:07
S58	33	(S36 or S53) (hub gear elastic (overload or absorb or damper))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/01 13:19

## EAST Search History

S59	320	(S36 or S53) (hub gear intermediate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/01 13:19
S60	1	("6613439").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/01 15:16
S62	1	material bond (two adj component adj technique)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/01 15:21
S63	12431	(plastic or elastic or elastomeric) gear (hub or pinion) (overload or absorb or stress)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/04 11:52
S64	871	S63 door lock	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/04 11:52
S65	298	S64 (vehicle or automobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/04 11:53
S66	181	S65 (bond or integral)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/04 11:57
S67	2733	(292/216,201).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/04 11:57
S68	20	S67 ((gear or hub) with (plastic or elastic or elastomeric or flexible)) (bond or integral)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/04 12:02
S69	64	S67 (overload or absorb) gear	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/04 12:03



## EAST Search History

S70	3	("3307419").URPN.	USPAT	AND	ON	2007/05/04 12:36
S71	89	((overload or absorb\$3 or lash gear).ti.	USPAT	AND	ON	2007/05/04 12:36
S72	7878	(74/53,54,55,89.14,405,411,443,446).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/08 13:03
S73	8	S72 (gear with elastic with integral)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/08 13:07
S74	20	(gear with elastic with (integral or bond) with (hub or carrier or pinion))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/08 13:11
S75	5	(material adj bond) with gear	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/08 13:13
S76	200	(gear with bond) (plastic or elastic or flexible or compressible or spring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/08 13:13
S77	16	("1785812"   "3541873"   "4078445"   "5452622").PN. OR ("5927149").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/08 13:18
S78	10	("1785812"   "4078445"   "4174643"   "4269262"   "5452622"   "5596905"   "5722295"   "5927149"   "6183230").PN. OR ("6736022").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/08 13:24
S79	143	(Weis christian).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/10 17:06
S80	1884	(74/425).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/10 17:06

## EAST Search History

S81	309	S80 gear (elastic or flexible or plastic or compressible)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/10 17:07
S82	183	S81 motor (arm or member)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	AND	ON	2007/05/10 17:08
S83	12	("3386264"   "3496791"   "3496802").PN. OR ("3789690"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 17:31
S84	105	S81 (bond or adhesive or integral)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 17:34
S85	29	S81 (bond or adhesive)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 17:34